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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/437,078	11/09/1999	DANIEL L. AUCLAIR		7501
27869 7.	590 02/12/2002		•	
SKJERVEN MORRILL MACPHERSON LLP			EXAMINER	
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2133 DATE MAILED: 02/12/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. 09/437,078 Applicant(s)

Auclair et al.

Office Action Summary

Examiner

Emmanuel L. Moise

Art Unit 2133



The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE					
Otation					
1) Responsive to communication(s) filed on Oct 2, 2001					
a) ☑ This action is FINAL . 2b) ☐ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle35 C.D. 11; 453 O.G. 213.					
Disposition of Claims	inter- monding in the applies				
4) 🛛 Claim(s) <u>37 and 39-45</u>	is/are pending in the applica				
4a) Of the above, claim(s)	is/are withdrawn from considers				
5) Claim(s)	is/are allowed.				
6) ☑ Claim(s) <u>37 and 39-45</u>	is/are rejected.				
6) XJ Claim(s) 37 and 39-43	is/are objected to.				
7)	are subject to restriction and/or election requirem				
8) Claims are subject to restriction and/o					
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are objected to by the Examiner.					
11) The proposed drawing correction filed on is: a pproved b) disapproved.					
12) The oath or declaration is objected to by the Examir	ner.				
Priority under 35 U.S.C. § 119					
13) Acknowledgement is made of a claim for foreign pri	ority under 35 U.S.C. § 119(a)-(d).				
a) ☐ All b) ☐ Some* c) ☐None of:					
1 Certified copies of the priority documents have been received.					
2 Certified copies of the priority documents have	e been received in Application No				
3. Copies of the certified copies of the priority do	ocuments have been received in this National Stage in the PCT Rule 17.2(a)).				
*See the attached detailed Office action for a list of the	reference copies not received.				
14) Acknowledgement is made of a claim for domestic	priority under 35 0.5.0. § 115(c).				
Attachment(s)					
15) Notice of References Cited (PTO-892)	18) Interview Summary (PTO-413) Paper No(s).				
16) Notice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application (PTO-152)				
17) Information Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Other:				

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Response to Amendment

- This Office action is responsive to applicant's correspondence filed on October 2, 2001.
 Claims 37 and 39-45 are pending.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 112

3. Claims 37 and 39-45 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The claimed subject matter in question is the step of "programming the memory cell until the charge of the memory cell is above the programmed-cell reference level."

Please see Section #3 of the previous Office action.

Response to Arguments

4. Applicant basically argues that the step of "programming the memory cell ..." is identified with step 905 of Figure 9 of the present application.

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5. The Examiner continues to disagree. Step 5 of Figure 9 does not provide support for the claimed step of "programming the memory cell until the charge of the memory cell is above the programmed-cell reference level." In step 901 of Figure 9 of the present application, a first control voltage, which is higher than the voltage for a normal read operation, is applied; and in step 903, a second control voltage, which is lower than a normal read operation, is applied. The cells are read in steps 902 and 904 to see if there is any error as determined by an ECC check. Steps 901-902 and 903-903 are performed to verify that the "1"s and the "0"s, respectively, in the chosen sector of cells are unaffected by the program operation. As can be seen, no step in Figure 9 provides a proper antecedent support for the claimed language of "programming the memory cell until the charge of the memory cell is above the programmed-cell reference level."

Applicant also refers to Figure 8 described between page 23, line 6 and page 24, line 23, as providing support for the claimed language in question. The Examiner disagrees. Careful review of steps 801-803 of Figure 8 does not lead to the conclusion that Figure 8 provides a proper antecedent support for the step of "programming the memory cell until the charge of the memory cell is above the programmed-cell reference level." In Figure 8, a check is performed to see if all cells are written correctly under the control of an applied voltage, and if the data are read correctly, a program verify operation is considered to have been successfully. This is different from the claimed language in question.

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Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel L. Moise whose telephone number is (703)305-9763. The examiner can normally be reached on Monday - Friday from 08:30 a.m. - 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady, can be reached on (703)305-9595. Any response to this action should be mailed to: Commissioner of Patents and Trademarks Washington, D.C. 20231, or faxed to: (703) 746-7239, (for formal communications intended for entry), Or: (703) 746-7240 (for informal or draft communications, please label "PROPOSED" or "DRAFT").

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Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Emmanuel L. Morse

Primary Patent Examiner

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February 8, 2002